



Dr. Daniel M. Ginosar

Significant research in heterogeneous catalysis in supercritical fluids, solid acid catalysis and supercritical fluid synthesis of nano- and micron-scale materials

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Education

Dr. Daniel M. Ginosar received his B.S. in chemical engineering in 1981 from U.C. Davis and his Ph.D. in chemical engineering in 1994 from the University of Kansas.

Experience and Achievements

Dr. Ginosar has been employed at the INL since 1993; he is currently the technical and group leader of the Interfacial Chemistry Research Group in the Chemical Sciences Department. Prior to his graduate work, Dr. Ginosar was employed as an engineer at the UNOCAL San Francisco Refinery from 1981 through 1987. Dr. Ginosar's research interests include heterogeneous catalysis in supercritical fluids, solid acid catalysis, and supercritical fluid synthesis of nano- and micron-scale materials and catalysis in harsh environments. He has been awarded nearly \$8,000,000 in research grants with work in the areas of catalytic upgrading of gasoline stocks, chemical production, thermochemical water splitting cycles, waste to fuels, environmental remediation and the production of nanomaterials from supercritical fluids. Dr. Ginosar is currently the principal investigator for a DOE-NE funded research project "Nuclear Hydrogen Catalyst Research" a funds-in CRADA project "Development of a Continuous Flow Solid-Catalytic Biodiesel Production Process" and an internally funded laboratory research project, "Renewable Biomass Carbon for Synthetic Fuels to Support the Hydrogen Economy." Dr. Ginosar has authored multiple peer-reviewed publications, patents and national presentations in these areas.

INL'S LIFETIME ACHIEVEMENT AWARD FOR INVENTORSHIP

Patents

- U.S. Patent 6,086,837 - Method of Synthesizing Enriched Decaborane for use in Generating Boron Neutron Capture Therapy Pharmaceuticals
- U.S. Patent 6,103,948 - Solid catalyzed isoparaffin alkylation at supercritical fluid and near supercritical fluid conditions
- U.S. Patent 6,402,952 - Apparatus and Method for Extraction of Chemicals from Aquifer Remediation Effluent Water
- U.S. Patent 6,495,204 - Method for Modifying Monofilaments, Bundles of Monofilaments, and Fibrous Structural Materials
- U.S. Patent 6,511,601 - Method and System for Extraction of Chemicals from Groundwater Remediation Effluent Water
- U.S. Patent 6,579,821 - Method for Reactivating Solid Catalysts Used in Alkylation Reactions
- U.S. Patent 6,623,686 - System Configured for Applying a Modifying Agent to a Non-Equidimension Substrate
- U.S. Patent 6,652,654 - System Configured for Applying a Multiple Modifying Agent to a Substrate
- U.S. Patent 6,887,283 - Transesterification of Triglycerides to Alcohol Esters over Solid Catalysts at Supercritical Fluid Conditions
- U.S. Patent 6,984,768 - Method for Destroying Halocarbon Compositions Using A Critical Solvent